

Claims

1. Use of a precipitation-hardenable, martensitic, rustless chrome nickel steel with the following composition (in wt.-%):

5	Chromium	10 to 14
	Nickel	7 to 11
	Molybdenum	0.5 to 6
	Copper	0.5 to 4
	Aluminium	0.05 to 0.55
10	Titanium	0.4 to 1.4
	Carbon + nitrogen	up to 0.3
	Sulphur	less than 0.05
	Phosphorus	less than 0.05
	Manganese	up to 0.5
15	Silicon	up to 0.5
	Tantalum, niobium, vanadium and tungsten	each up to 0.2
	Cobalt	where appropriate up to 9.0
	Boron	where appropriate 0.0001 to 0.1

the remainder comprising iron and customary impurities

for the manufacture of machine-operated rotary tools, preferably drilling, milling, grinding and cutting tools.
2. Use according to claim 1, the rotary tools having geometrically defined cutting edges.
- 25 3. Use according to claim 1, the rotary tools having non-geometrically defined cutting edges.
4. Use according to one of claims 1 to 3, the rotary tools being medical tools and instruments.
5. Machine-operated rotary tools, made from precipitation-hardenable, martensitic, rustless chrome nickel steel with the following composition (in wt.-%):

30	Chromium	10 to 14
	Nickel	7 to 11
	Molybdenum	0.5 to 6
	Copper	0.5 to 4
35	Aluminium	0.05 to 0.55
	Titanium	0.4 to 1.4
	Carbon + nitrogen	up to 0.3
	Sulphur	less than 0.05
	Phosphorus	less than 0.05

- | | | |
|---|--|---------------------------------|
| | Manganese | up to 0.5 |
| | Silicon | up to 0.5 |
| | Tantalum, niobium, vanadium and tungsten | each up to 0.2 |
| | Cobalt | where appropriate up to 9.0 |
| 5 | Boron | where appropriate 0.0001 to 0.1 |
- the remainder comprising iron and customary impurities.
6. Machine-operated rotary tools according to claim 5, the rotary tools having geometrically defined cutting edges.
- 10
7. Machine-operated rotary tools according to claim 5, the rotary tools having non-geometrically defined cutting edges.
8. Machine-operated rotary tools according to one of claims 5 to 7, the rotary tools being medical tools and instruments.
- 15